

## THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Dieter LEHMANN et al.

Group Art Unit: Not Known

Appln. No. : 10/577,619

Examiner: Not Known

I.A. Filed : October 22, 2004

Confirmation No.: 5407

For : RADICALLY COUPLED PTFE POLYMER COMPOUNDS AND METHOD  
FOR THE PRODUCTION THEREOF

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop Amendment  
Randolph Building  
401 Dulany Street  
Alexandria,, VA 22314

Sir:

In accordance with the duty of disclosure under 37 C.F.R. 1.56, 1.97, and 1.98, Applicants hereby bring the following information to the attention of the Examiner, which includes information cited and discussed in the specification, and the International Search Report issued in connection with counterpart International Application No. PCT/EP2004/052619. Copies of the International Search Report (in English and German) were enclosed with the papers when entering the National Stage on April 28, 2006. The Examiner is invited to review these materials to inspect the relevance indicated during international examination with respect to the documents cited therein.

A. Heger et al., Technologie der Strahlenchemie an Polymeren, Akademie-Verlag Berlin 1990, 463-488 and 496-501 beginning in the paragraph beginning at page 2, line 20;

Ferse et al., Plaste u. Kautschuk, 29 (1982), 45-465, beginning in the paragraph beginning at page 3, line 1;

Ferse et al. DD-PS 146 716 (1979)] beginning in the paragraph beginning at page 3, line 1;

U.S. Patent No. 5,576,106, beginning in the paragraph beginning at page 3, line 11;

K. Schierholz et al., J. Polym. Sci. Part B, Polymer Physics, Vol. 37, 2404-2411 (1999),  
beginning in the paragraph beginning at page 6, line 17;

JP 63-007455 A accompanied by an English abstract

Patent Abstracts of Japan, Vol. 011, No. 222 (C-435), July 18, 1987, which is indicated to be a family member of JP 62-036431 A, February 17, 1987;

Patent Abstracts of Japan, Vol. 2003, No. 03, May 5, 2003, which is indicated to be a family member of JP 2002-338931 A, November 27, 2002;

Patent Abstracts of Japan, Vol. 014, No. 252 (E-0934), May 20, 1990, which is indicated to be a family member of JP 02-072771 A, March 13, 1990; and

U.S. Patent No. 5,169,675.

The Annex to the International Search Report indicates that U.S. Patent No. 5,087,936 is a family member of JP 02-072771.

Applicants also bring to the attention of the Examiner:

U.S. Patent No. 6,770,378 and family member DE 198 23 609 and WO 99/61527;

GB 1 516 648 A;

U.S. Patent No. 4,385,130;

U.S. Patent No. 3,298,942;

U.S. Patent No. 6,387,964, and family member U.S. Patent No. 6,225,368;

WO 96/03448 and family members U.S. Patent Nos. 5,756,199 and 5,576,106;

FR 2 318 896 accompanied by an English abstract;

JP 2004-107461 accompanied by an English abstract;

Dargaville et al., "High Energy Radiation Grafting Of Fluoropolymers", Prog. Poly. Sci.

28 (2003) 1355-1376;

FR 2,494,702;

U.S. Patent No. 4,179,401;

U.S. Patent No. 4,129,617;

U.S. Patent Application Publication No. 2003/199639, and family member U.S. Patent Application Publication No. U.S. Patent No. 2004/033358;

U.S. Patent No. 3,298,942;

GB 1,495,297;

DE-PS 2005 312; and

D.-W. Lee, "Ionisierende Strahlen Machen PTFE-Abfälle Wiederverwertbar", Kunststoffe, Vol. 84, pp. 277-278, and 280 (1994).

Applicants also bring to the attention of the Examiner commonly assigned copending applications:

U.S. Patent Application No. 10/577,305, which is a National Stage of International Application No. PCT/EP2004/052620, filed October 22, 2004, and published as WO 2005/042596 A1, on May 12, 2005; and

U.S. Patent Application No. 10/577,300, which is a National Stage of International Application No. PCT/EP2004/052621, filed October 22, 2004, and published as WO 2005/042597 A1, on May 12, 2005.

In accordance with 37 C.F.R. 1.98 and the waiver thereof, copies of the U.S. patents, U.S. published patent applications, and U.S. patent applications are not enclosed herewith. However, if any copies are needed, the Examiner is respectfully requested to contact the undersigned.

Copies of the above-noted documents, except for U.S. patents, U.S. published patent applications, and U.S. patent applications, are enclosed together with a duly completed Form PTO-1449. The Examiner is accordingly requested to consider each of these documents, and to make them of record in this application by initialing in the appropriate spaces on the Form PTO-1449. Applicants respectfully request that the Examiner include a copy of the initialed Form PTO-1449 with the next communication from the U.S. Patent and Trademark Office.

Applicants note that while this Information Disclosure Statement is being filed more than three months from the filing date, Applicants have not received an action on the merits from the U.S. Patent and Trademark Office. Accordingly, consideration of the enclosed document is required under 37 C.F.R. 1.97(b)(3).

However, if an action on the merits has been mailed prior to the filing date of this Information Disclosure Statement, Applicants hereby authorize the charging of any required fees necessary for consideration of the documents cited herein to Deposit Account No. 19-0089.

Should there be any questions, the Examiner is invited to contact the undersigned at the below listed telephone number.

Respectfully submitted,  
Dieter LEHMANN et al.

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January 22 2007  
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FORM PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P29883Application No.  
10/577,619INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

(Use several sheets if necessary)

Applicant  
Dieter LEHMANN et al.I.A. Filing Date  
October 22, 2004Group  
Unknown

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |  | DOCUMENT NUMBER | DATE     | NAME              | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|--|-----------------|----------|-------------------|-------|----------|-------------------------------|
| .                   |  | 5 5 7 6 1 0 6   | 11/19/96 | KERBOW et al.     |       |          |                               |
| .                   |  | 4 8 3 5 1 3 0   | 05/24/83 | MOLINSKI et al.   |       |          |                               |
| .                   |  | 3 2 9 8 9 4 2   | 05/20/58 | MAGAT et al.      |       |          |                               |
|                     |  | 6 3 8 7 9 6 4   | 05/14/02 | D'AGOSTINO et al. |       |          |                               |
|                     |  | 6 2 2 5 3 6 8   | 05/01/01 | D'AGOSTINO et al. |       |          |                               |
|                     |  | 5 7 5 6 1 9 9   | 05/26/98 | KERBOW et al.     |       |          |                               |
|                     |  | 6 7 7 0 3 7 8   | 08/03/04 | LEHMANN           |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  |      | DOCUMENT NUMBER | DATE     | COUNTRY       | CLASS | SUBCLASS | TRANSLATION<br>YES | NO |
|--|------|-----------------|----------|---------------|-------|----------|--------------------|----|
|  |      | 1 5 1 6 6 4 8   | 07/05/78 | GREAT BRITAIN |       |          |                    |    |
|  | 9    | 6 / 0 3 4 4 8   | 02/08/96 | W.I.P.O.      |       |          |                    |    |
|  |      | 1 4 6 7 1 6     | 10/22/79 | GERMANY       |       |          |                    |    |
|  |      | 2 3 1 8 8 9 6   | 02/18/77 | FRANCE        |       |          |                    |    |
|  | 2004 | - 1 0 7 4 6 1   | 04/08/04 | JAPAN         |       |          |                    |    |
|  | 1    | 9 8 2 3 6 0 9   | 12/02/99 | GERMANY       |       |          |                    |    |
|  | 9    | 9 / 6 1 5 2 7   | 12/02/99 | W.I.P.O.      |       |          |                    |    |
|  | 63   | - 0 0 7 4 5 5   | 01/13/88 | JAPAN         |       |          |                    |    |
|  |      | 2 4 9 4 7 0 2   | 05/28/82 | FRANCE        |       |          |                    |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | 1  | A. Heger et al., Technologie der Strahlenchemie an Polymeren, Akademie-Verlag Berlin 1990, 463-488 and 496-501. |
|  | 2  | Ferse et al., Plaste u. Kautschuk, 29 (1982), 45-465.   |
|  | 3  | K. Schierholz et al., J. Polym. Sci. Part B, Polymer Physics, Vol. 37, 2404-2411 (1999).                        |
|  | 4  | English Language Abstract of FR 2318896.  |
|  | 5  | English Language Abstract of JP 2004-107461.  |
|  | 6  | Dargaville et al., "High Energy Radiation Grafting Of Fluoropolymers", Prog. Poly. Sci. 28 (2003) 1355-1376.    |
|  | 7  | English Language Abstract of JP 63-007455.  |
|  | 8  | Patent Abstracts of Japan, Vol. 011, No. 222 (C-435), July 18, 1987   |
|  | 9  | Patent Abstracts of Japan, Vol. 2003, No. 03, May 5, 2003   |
|  | 10 | Patent Abstracts of Japan, Vol. 014, No. 252 (E-0934), May 20, 1990   |

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P29883Application No.  
10/577,619INFORMATION DISCLOSURE STATEMENT  
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Applicant  
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| EXAMINER<br>INITIAL |       | DOCUMENT NUMBER | DATE     | NAME                  | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-------|-----------------|----------|-----------------------|-------|----------|-------------------------------|
|                     |       | 5 1 6 9 6 7 5   | 12/08/92 | BARTOSZEK-LOZA et al. |       |          |                               |
|                     |       | 5 0 8 7 9 3 6   | 02/11/92 | OGATA et al.          |       |          |                               |
|                     |       | 4 1 7 9 4 0 1   | 12/18/79 | GARNETT et al.        |       |          |                               |
|                     |       | 4 1 2 9 6 1 7   | 12/12/78 | MACHI et al.          |       |          |                               |
|                     | 2003/ | 0 1 9 9 6 3 9   | 10/23/03 | COATES et al.         |       |          |                               |
|                     | 2004/ | 0 0 3 3 3 5 8   | 02/19/04 | COATES et al.         |       |          |                               |
|                     |       | 3 2 9 8 9 4 2   | 01/17/67 | MAGAT et al.          |       |          |                               |
|                     |       |                 |          |                       |       |          |                               |
|                     |       |                 |          |                       |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  |      | DOCUMENT NUMBER | DATE     | COUNTRY       | CLASS | SUBCLAS<br>S | TRANSLATION<br>YES NO |
|--|------|-----------------|----------|---------------|-------|--------------|-----------------------|
|  |      | 1 4 9 5 2 9 7   | 12/14/77 | GREAT BRITAIN |       |              |                       |
|  | 2    | 0 0 5 - 3 1 2   | 05/11/83 | GERMANY       |       |              |                       |
|  | 2005 | / 0 4 2 5 9 6   | 05/12/05 | W.I.P.O.      |       |              |                       |
|  | 2005 | / 0 4 2 5 9 7   | 05/12/05 | W.I.P.O.      |       |              |                       |
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|  |      |                 |          |               |       |              |                       |
|  |      |                 |          |               |       |              |                       |
|  |      |                 |          |               |       |              |                       |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |    |   |
|--|----|---|
|  | 11 | D.-W. Lee, "Ionisierende Strahlen Machen PTFE-Abfälle Wiederverwertbar", Kunststoffe, Vol. 84, pp. 277-278, and 280 (1994). |
|  | 12 | U.S. Patent Application No. 10/577,305, filed October 22, 2004, to LEHMANN et al.   |
|  | 13 | U.S. Patent Application No. 10/577,300, filed October 22, 2004, to LEHMANN  |
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